

Title (en)
METHOD FOR PRODUCING A PIEZOELECTRIC TRANSDUCER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES PIEZOELEKTRISCHEN WANDLERS

Title (fr)
PROCEDE DE FABRICATION D'UN TRANSDUCTEUR PIEZO-ELECTRIQUE

Publication
EP 1228541 A2 20020807 (DE)

Application
EP 00982998 A 20001012

Priority
• DE 0003609 W 20001012
• DE 19954020 A 19991110

Abstract (en)
[origin: WO0135468A2] The invention relates to a method for producing a piezoelectric transducer comprised of piezoelectric fibers arranged in a polymer matrix. According to the inventive method, the piezoelectric fibers (2) or fiber pieces are covered by a liquid polymer material such that the longitudinal axes of the fibers or fiber pieces are distributed in a preferred direction (3). These fibers (2) are then compacted together and the polymer material is cured. The resulting composite is subsequently processed such that areas (5) of the fibers (2) or fiber pieces are exposed along the preferred axis (3). Afterwards, electric contacts (6) are applied to at least one part of the exposed areas (5). The inventive method makes it possible to produce electromechanical transducers comprised of piezoelectric fibers in a very simple and economical manner.

IPC 1-7
H01L 41/00

IPC 8 full level
H01L 41/00 (2006.01); **H01L 41/08** (2006.01); **H01L 41/37** (2013.01); **H02N 2/00** (2006.01)

CPC (source: EP US)
H10N 30/092 (2023.02 - EP US); **Y10T 29/42** (2015.01 - EP US)

Citation (search report)
See references of WO 0135468A2

Cited by
DE102013219550A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0135468 A2 20010517; **WO 0135468 A3 20011206**; AT E302472 T1 20050915; DE 19954020 A1 20010607; DE 19954020 C2 20020228; DE 50010995 D1 20050922; EP 1228541 A2 20020807; EP 1228541 B1 20050817; JP 2003516620 A 20030513; JP 4896331 B2 20120314; US 7228606 B1 20070612

DOCDB simple family (application)
DE 0003609 W 20001012; AT 00982998 T 20001012; DE 19954020 A 19991110; DE 50010995 T 20001012; EP 00982998 A 20001012; JP 2001537108 A 20001012; US 12974800 A 20001012